

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P277649

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2358.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

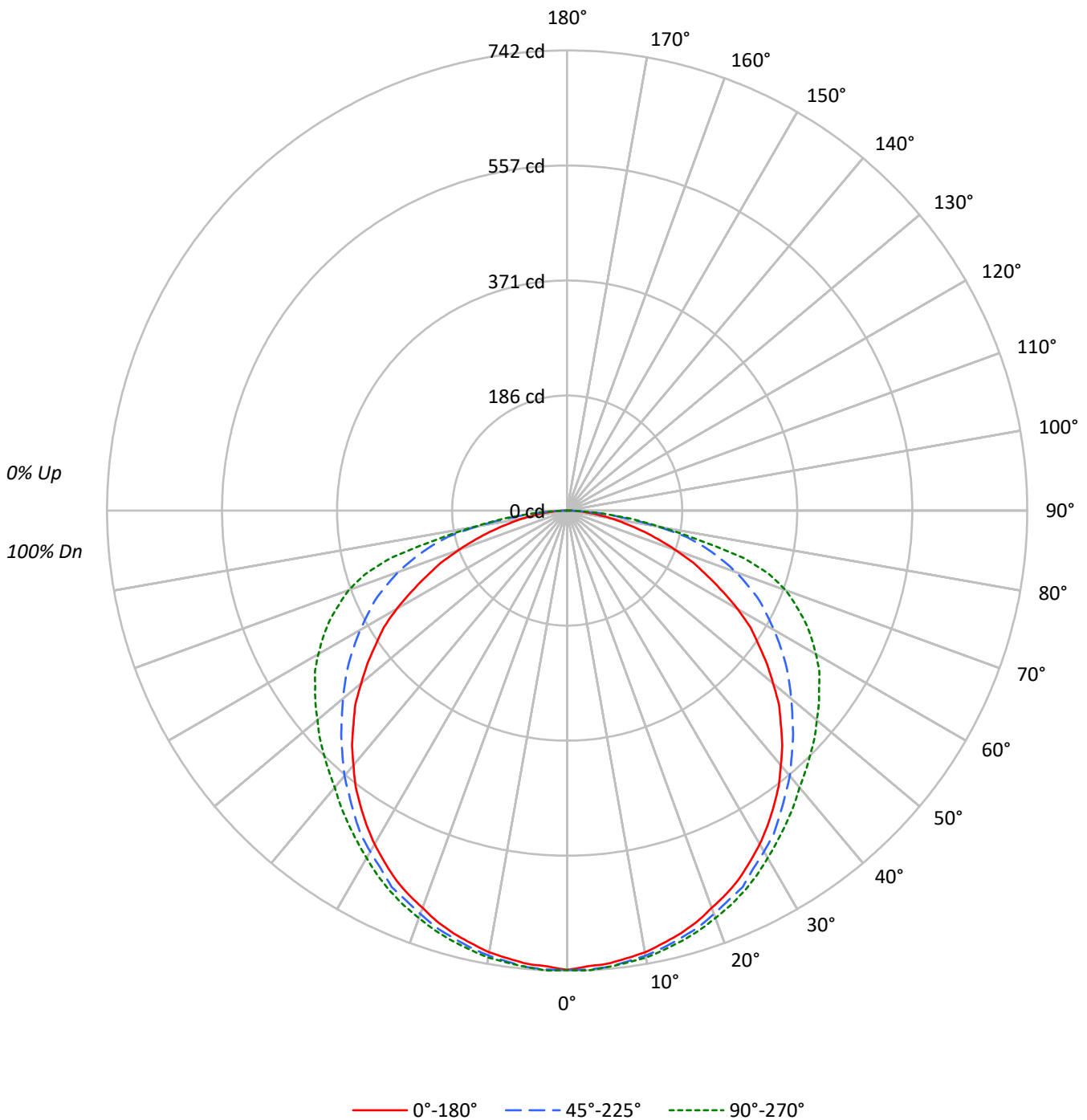
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1993	1993	1993
5°	1982	1996	1996
10°	1976	1991	2000
15°	1967	1986	2001
20°	1952	1982	2002
25°	1947	1988	2009
30°	1930	1973	2010
35°	1909	1966	2023
40°	1883	1962	2047
45°	1855	1961	2112
50°	1816	1975	2200
55°	1766	2018	2327
60°	1708	2073	2492
65°	1591	2176	2695
70°	1460	2279	2948
75°	1281	2399	3048
80°	1102	2284	2393
85°	963	1661	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.0
10°-20°	201.2	8.5
20°-30°	306.9	13.0
30°-40°	374.8	15.9
40°-50°	400.7	17.0
50°-60°	386.8	16.4
60°-70°	332.9	14.1
70°-80°	225.3	9.6
80°-90°	59.4	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	578.2	24.5
0°-40°	952.9	40.4
0°-60°	1740.4	73.8
0°-90°	2358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	734	736	739	739	739	70
15°	706	708	713	716	718	199
25°	656	659	670	673	676	302
35°	581	586	598	611	616	364
45°	487	496	515	541	555	376
55°	376	389	430	474	496	337
65°	250	274	342	396	423	248
75°	123	163	231	278	293	132
85°	31	43	54	56	59	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.7	740.7	740.7	740.7	740.7
2.5°	735.5	737.2	740.7	740.7	742.4
5°	733.8	735.5	739.0	739.0	739.0
7.5°	728.5	730.3	733.8	735.5	735.5
10°	723.3	725.1	728.5	730.3	732.0
12.5°	714.7	716.4	721.6	725.1	725.1
15°	706.0	707.7	712.9	716.4	718.1
17.5°	695.6	699.1	704.3	707.7	709.5
20°	681.7	685.2	692.1	697.3	699.1
22.5°	669.6	673.0	680.0	685.2	688.6
25°	655.7	659.2	669.6	673.0	676.5
27.5°	638.3	641.8	650.5	657.4	662.6
30°	621.0	624.5	634.9	643.5	647.0
32.5°	601.9	607.1	619.3	626.2	631.4
35°	581.1	586.3	598.4	610.6	615.8
37.5°	560.3	565.5	577.6	593.2	600.2
40°	536.0	542.9	558.6	579.4	582.8
42.5°	513.5	522.1	536.0	560.3	569.0
45°	487.4	496.1	515.2	541.2	555.1
47.5°	463.1	471.8	492.6	523.9	541.2
50°	433.7	445.8	471.8	508.2	525.6
52.5°	405.9	416.3	451.0	490.9	511.7
55°	376.4	388.6	430.2	473.6	496.1
57.5°	350.4	360.8	407.6	456.2	482.2
60°	317.4	331.3	385.1	437.1	463.1
62.5°	282.7	303.6	362.5	416.3	444.1
65°	249.8	274.1	341.7	395.5	423.3
67.5°	220.3	246.3	315.7	372.9	399.0
70°	185.6	218.6	289.7	345.2	374.7
72.5°	154.4	190.8	260.2	315.7	341.7
75°	123.2	163.1	230.7	277.5	293.2
77.5°	95.4	133.6	197.7	211.6	213.4
80°	71.1	105.8	147.4	149.2	154.4
82.5°	48.6	74.6	95.4	104.1	105.8
85°	31.2	43.4	53.8	55.5	59.0
87.5°	13.9	15.6	19.1	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)